

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB 03/04937

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H01L21/762 H01L21/68 H01L21/306 H01L21/78 H01L27/15 H01L27/32		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/45426 A (HORZEL JOERG ;INTERUNIVERSITAIRE MICROELEKTR (BE); VAZSONYI EVA (H) 3 August 2000 (2000-08-03) cited in the application page 9, line 5 -page 10, line 19; figures 1A-N page 15, line 31 -page 16, line 31 ---	1,3,4,6, 7,14-18
X	US 5 665 607 A (KAWAMA YOSHITATSU ET AL) 9 September 1997 (1997-09-09)	1-3,5,6, 14,15, 17,18
Y	column 13, line 43 -column 16, line 14; figures 2A-G ---	8-13
Y	GB 1 515 031 A (IBM) 21 June 1978 (1978-06-21) page 1, line 55 - line 67; figures 1-6 ---	8-13
-/--		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *&* document member of the same patent family		
Date of the actual completion of the international search 28 June 2004		Date of mailing of the international search report 06/07/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Dauw, X

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/04937

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 196 54 791 A (MITSUBISHI ELECTRIC CORP) 25 September 1997 (1997-09-25) figure 10 -----	1-18
A	GB 1 475 656 A (IBM) 1 June 1977 (1977-06-01) page 2, line 117 - line 126; figures 1,2 page 4, line 121 -page 5, column 2 -----	8-13
A	US 5 362 671 A (MCCLELLAND ROBERT ET AL) 8 November 1994 (1994-11-08) figures 10-12 -----	1-18

# INTERNATIONAL SEARCH REPORT

Int'l. Patent Application No.  
PCT/IB 03/04937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0045426 A	03-08-2000	EP 1024523 A1 AU 2544900 A WO 0045426 A1 EP 1153423 A1	02-08-2000 18-08-2000 03-08-2000 14-11-2001
US 5665607 A	09-09-1997	JP 3360919 B2 JP 7226528 A	07-01-2003 22-08-1995
GB 1515031 A	21-06-1978	US 3962052 A DE 2611158 A1 FR 2308202 A1 IT 1056750 B JP 1041222 C JP 51124382 A JP 55032216 B	08-06-1976 28-10-1976 12-11-1976 20-02-1982 23-04-1981 29-10-1976 23-08-1980
DE 19654791 A	25-09-1997	JP 9260342 A DE 19654791 A1 US 6261969 B1	03-10-1997 25-09-1997 17-07-2001
GB 1475656 A	01-06-1977	DE 2425684 A1 FR 2273081 A1 JP 50153795 A US 3971683 A	11-12-1975 26-12-1975 11-12-1975 27-07-1976
US 5362671 A	08-11-1994	US 5206749 A US 6232136 B1 US 2003057425 A1 US 5528397 A US 5736768 A US 2001019371 A1 EP 0565588 A1 JP 3227156 B2 JP 6504139 T JP 3361325 B2 JP 2002014375 A US 5396304 A US 6121950 A US 6486929 B1 WO 9212453 A1 US 5376979 A US 5751261 A US 5377031 A US 5539550 A US 5438241 A US 6143582 A US 5475514 A US 5666175 A US 5713652 A US 5702963 A US 6320568 B1 US 5583335 A US 5581385 A US 5499124 A US 2001040644 A1 US 6043800 A US 6317175 B1 US 6072445 A	27-04-1993 15-05-2001 27-03-2003 18-06-1996 07-04-1998 06-09-2001 20-10-1993 12-11-2001 12-05-1994 07-01-2003 18-01-2002 07-03-1995 19-09-2000 26-11-2002 23-07-1992 27-12-1994 12-05-1998 27-12-1994 23-07-1996 01-08-1995 07-11-2000 12-12-1995 09-09-1997 03-02-1998 30-12-1997 20-11-2001 10-12-1996 03-12-1996 12-03-1996 15-11-2001 28-03-2000 13-11-2001 06-06-2000

# INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/IB 03/04937

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5362671	A	US 5743614 A	28-04-1998
		US 5757445 A	26-05-1998
		US 6627953 B1	30-09-2003
		US 5661371 A	26-08-1997
		US 2004070697 A1	15-04-2004
		US 6521940 B1	18-02-2003
		US 5258320 A	02-11-1993
		US 5317236 A	31-05-1994
		US 5258325 A	02-11-1993
		US 5317436 A	31-05-1994
		US 5376561 A	27-12-1994
		US 5444557 A	22-08-1995
		US 5256562 A	26-10-1993
		US 5861929 A	19-01-1999
		US 5331149 A	19-07-1994
		US 6424020 B1	23-07-2002